INTERNATIONAL SEARCH REPORT

International application No.
PCT/US04/28767

A CLASSIFICATION OF SUBJECT MATTER					
IPC(7) : H01B 1/24; D01F 9/12					
US CL : 252/502, 510, 511; 524/495, 496; 423/447.1					
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
Minimum do	cumentation searched (classification system followed 1	by classifica	tion symbols)		
U.S.: 252/502, 510, 511; 524/495, 496; 423/447.1					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
Electronic data base consulted during the international search (name of data base and, where practicable, scarch terms data)					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where appropriate, of the relevant passages			Relevant to claim No.	
X	US 2003/0001141 A1 (SUN et al.) 2 January 2003 (02.01.2003), entire document			1-4, 6, 8-15, 19, and	
	(22.2003,00011.12.12.(2.20.0001)	,	21-31		
\mathbf{x}	US 2002/0197474 A1 (REYNOLDS) 26 December 2002 (26.12.2002), entire document 1-4, 6, 8-16, and 19			1-4, 6, 8-16, and 19-31	
	00 2002 0137474712 (102 17(0222) 20 2000111001 2002 (201212012), 51111				
Y	US 2001/0016608 A1 (HADDON et al.) 23 August 2001 (23.08.2001), entire document			1-4, 6, 8-16, and 19-31	
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Y	US 6,331,265 B1 (DUPIRE et al.) 18 December 2001 (18.12.2001), entire document			1-4, 6, 8-16, and 19-31	
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Further	documents are listed in the continuation of Box C.		See patent family annex.		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of		"I" later document published after the date and not in conflict with the apprinciple or theory underlying the		the international filing date or priority	
				invention	
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•		"X"	document of particular relevance; considered novel or cannot be con-	the claimed invention cannot be sidered to involve an inventive step	
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"L" document	t which may throw doubts on priority claim(s) or which is cited to		t Caratanta alamas	the electrical important approaches	
	the publication date of another citation or other special reason (as	"Åu	document of particular relevance; considered to involve an inventive	step when the document is combined	
specified)			with one or more other such documents, such combination		
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"P" document published prior to the international filing date but later than the		"&"	document member of the same pat	ent family	
priority date claimed			•		
Date of the actual completion of the international search Date of mailing of the international search					
Late of the actual collibration of the international section		Date of mailing of the international search resort			
25 October 2005 (25.10.2005)			70110	<u> </u>	
Name and mailing address of the ISA/US			Authorized officer		
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Commissioner for Patents			Stanley Silverman Kean Proctor Pursicus Specialis		
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